In January, 1883, the first icebergs reported were observed in N. 47° 35′, W. 45° 04′ on the 30th; in 1882 the first icebergs were seen in N. 47° 30′, W, 48° 35′ on the 30th.

From the above, it will be seen that the ocean ice observed during January, 1887, was somewhat less, in quantity, than the average for corresponding months of the five preceding years. The iceberg reported was, however, in the same locality as those first observed in the preceding years, and serves to indicate a seasonable southern movement of icebergs and field-ice from the Labrador coast.

FOG.

The following shows the limits of fog-areas encountered on the north Atlantic Ocean during January, 1887, as reported by

shipmasters:

1st.—The s. s. "British Queen," in N. 44° 6′, W. 64° 0′, had fog from 3.26 p. m. until midnight, with southerly winds and pressure below the normal. The s. s. "Palmyra," in N. 42° 50′, W. 62° 20′, had dense fog from 11 a. m to 1.30 p. m., and again at midnight and until noon of the 2d, in N. 42° 33′, W. 67° 55′, with southeast veering to southwest winds and falling barometer. The s. s. "Prussian," in N. 44° 14′, W. 53° 52′, had fog, at intervals, from 1 p. m. until 2 a. m. of the 2d, in N. 43° 0′, W. 58° 0′, with moderate southwest winds and falling barometer.

7th.—The s. s. "Paxo," in N. 46° 18′, W. 48° 8′, had dense fog from 8 a. m. to noon, with fresh se, breeze and pressure

below the normal.

15th.—The s. s. "Siberian," in N. 46° 0′, W. 48° 10′, had dense fog from 4 to 11 p. m., with southerly winds and falling barometer. 23d.—The s. s. "Borderer," in N. 44° 10′, W. 63° 10′, had dense fog from 7 a. m. to 3.30 p. m., with moderate wsw. breeze and pressure about normal.

As in the two preceding months, fog was encountered with southerly winds and barometric pressure below the normal, or

to the eastward of areas of low pressure.

TEMPERATURE OF THE AIR.

[Expressed in degrees, Fahrenheit.]

The distribution of mean temperature over the United States and Canada for January, 1887, is exhibited on chart ii by the dotted isothermal lines; and in the table of miscellaneous data are given the monthly mean temperatures, with the departures from the normal, for the various stations of the Signal Service. On chart iv the departures from the normal are illustrated by lines connecting stations of normal or equal abnormal values.

During January, 1887, the temperature of the air has been above the normal on the Pacific slope and in the plateau regions and eastern slope of the Rocky mountains, except in eastern Montana. It has been normal or slightly above along the Atlantic coast from Eastport, Maine, to Hatteras, North Carolina. The departures in excess of the normal are small, except in the Rocky Mountain regions where they range from 4°.5 at Prescott, Arizona, to 8°.6 at Spokane Falls, Washington Territory. In Dakota, Minnesota, eastern Montana, the Missouri Valley, upper Mississippi valley, the Lake region, Saint Lawrence Valley, New England, the Ohio Valley, and the Southern States the temperature of the month has been below the normal. The deficiencies are especially large in Dakota, Minnesota, and the upper lake region, where the mean temperature of the month is about 7°.0 below the normal. In the south Atlantic and east Gulf states it is 2°.5 below the normal.

The following are some of the most marked departures from the normal temperature at Signal Service stations:

Above normal.		Below normal.			
Boisé City, Idaho	7.8 7.4 5.4	Saint Paul, Minnesota Bismarck, Dakota Fort Buford, Dakota Duluth, Minnesota Marquetto, Michigan Omaha, Nebraska Davenport, Iowa Dubuque, Iowa	8.3 8.3 8.3		

DEVIATIONS FROM NORMAL TEMPERATURES.

In the table below are given, for certain stations, as reported by voluntary observers, the normal temperatures of January for a series of years, the mean temperature for January, 1887, and the departures from the normal:

,		tem- re for	of	for 5	9	
Station.	County.	Normal ter perature f	Number years.	Mean temper- ature for Jan., 1887.	Departure.	
Arkansas.	_	0	_	•		
Lead Hill	Boone	29.3	5	34.3	+ 5.0	
Sacramento	Sacramento	46.5	21	44.3	- 2.2	
Middletown New Haven Thompson	Middlesex New Haven Windham	24.8 26.6 21.4	29 101 30	22.7 25.2 21.8	- 2.1 - 1.4 + 0.4	
Dakola. Webster	Day	1.3	4	- 12.6	-13.9	
Illinois.	Madison	25.1	- 8	23.9	- 1.2	
Mattoon	Coles Peoria	24.8 24.1	7 31	24.0 21.0	— 0.8 — 3.1	
Riley	McHenry	17.5	23	11.1	- 0.4	
Sycamore	De Kalb	. 14-3	ð	12.5	- 1.8	
Lafayette	Tippecanoe	22.8	8	20.1	- 2.7 - 2.8	
Logausport Vevay	Cass Switzerland	25.2 31.4	33	22.4 30.3	_ i.i	
Iowa.	Howard	10.1	15	2.0	- 7.I	
Monticello	Jones	14.8	37	3.0 8.9	- 3.9	
Muscatine	Muscatine	18.7	49	12.5	- 6.2	
Independence	Montgomery Sumper	27.8 24.2	_16 9	27.1 26.7	一 0.7 十 2.5	
Maine.			_	•		
Belfast *	Waldo Kennebec	19.0 17.8	28	17.5 15.8	- 1.5 - 2.0	
Orono *	Penobscot	15.4	51 19	14.0	- 1.4	
Maryland.	Alleghany	30.8	,,	28.6	_ 2.2	
Fallston	Harford	29.7	15 16	28.6	- 1.1	
Amherst *	Hampshire	22.3	50	10.4	- 2.9	
Cambridge 5	Middlesex	24.9	50 65	19.4 22.8	- 2.1 - 1.9 - 1.6	
Fitchburg *	Worcester	22.3	30	20.4	- 1.6	
Somerset	Bristol	28,3 26,2	75 17	26.7 26.5	+ 0.3	
Springfield	Hampden	24.4	20	22,2	- 2.2	
Taunton *	Bristol	1,02	16	26.1	0.0	
Michigan.	Berkshire	21,5	33	20,0		
Thornville Nevada.	Lapeer	23.2	12	19.2	- 4.0	
Carson City	Ormsby	32.7	8	36.5	+ 3.8	
Saint John New Hampshire.	Saint John	18.0	27	17.6	- 0.4	
Concord *	Merrimac	21.5	19	19.2	— 2.3	
Hanover	Grafton	16.1	24	13.0	- 3.t	
South Orange	Easex	28.2	17	28.7	+ 0.5	
North Volney	Oswego	21.9 20.3	19 34	19.0 17.0	- 2.9 - 3.3	
Ohio. Wauseon	Fulton	22.7	17	19.3	- 3.4	
Pennsylvania. Dyberry	Wayne	20.9	23	19.8	_ r.r	
Grampian Hills South Carolina,	Clearfield	21.5	17	21.1	- 0.4	
Stateburg Texas.	Sumter	43.8	6	42.4	- 1.4	
New Ulm	Austin	50.3	14	49.6	- 0.7	
Lunenburg*	Essex	15.1	39	13.3	- 1.8	
Newport	Orleans	14.4 15.8	12 12	11.3	- 3.1 - 2.5	
Virginia.	Rockingham	28.7	7	33.6	+ 4.9	
Dale Enterprise	Nelson	34.1	10	33.0	工 1:3	
Helvetia	Randolph	32.3	11	/ 31.0	- 1.3	
Parkersburg	Wood	35.5	8	31.0	4.5	
	etin of the New England	1	l	<u> </u>	L	

From the "Bulletin of the New England Meteorological Society."

The following notes on temperature are furnished by voluntary observers:

Dakota.—Webster, Day county: during the month the temperature has been below zero every day except the 15th; the daily mean has been below zero on twenty-four days.

zero on twenty-four days.

Illinois.—Mattoon, Coles county: the highest temperature that has occurred in any January during the past seven years was 65°.0, in 1880; the lowest, —28°.0, in 1884; the highest mean temperature, 40°.0, occurred in 1880; the lowest mean 18°0 in 1881

—28°.0, in 1884; the highest mean temperature, 40°.0, occurred in 1880; the lowest mean, 19°.0, in 1881.

Riley, McHenry county: during the past twenty-three years the highest January mean temperature, 38°.4, occurred in 1875; the lowest mean, 5°.9, in 1880. Indiana.—Vevay, Switzerland county: during the past twenty-one years the highest January temperature, 69°.0, occurred in 1866 and 1876; the lowest, —28°.0, in 1884.

Since establishment of station.

Iowa.—Monticello, Jones county: the highest temperature that has occurred in any January during the past thirty-three years was 62°.0, in 1855; the lowest, —38°.0, in 1884; the highest mean temperature, 32°.9, occurred in

1880; the lowest mean, 8°.6, in 1875.

Kansas.—Wellington, Sumner county: the highest January mean tempera. ture in the past nine years, 40°.4, occurred in 1880; the lowest, 17°.6, in 1886; the minimum temperature of the present month, —20°.0 on the 3d at 1 a. m.,

is lower than any previous reading in a record of the past nine years.

Maryland.—Cumberland, Alleghany county: table of temperature for Jan-

uary during the past fifteen years:

January,	Tomperature.				Temperature.			
January.	Highest.	Lowest.	Mean.	January.	Highest.	Lowest,	Moun,	
873	65 65 55 48 51	96 -4 -52 -8 -55	30 36 29 38 30 29 27 39	1882		8 2 6 6	33 37 27 29 25 29	

New York.—Palermo, Oswego county: the highest January mean tempera ture during the past thirty-four years, 29°.4, occurred in 1880; the lowest 12°.8, in 1881.

North Volney, Oswego county: during the past nineteen years the colder January occurred in 1881, mean temperature, 15°.1; the warmest in 1880

Ohio.-Wauseon, Fulton county: the highest January mean temperature i the past seventeen years, 37°.7, occurred in 1880; the lowest mean, 12°.2, in 1876; the January extremes in that time are 69°.5, in 1876, and —31°.7, in 1884

Pennsylvania.—Grampian Hills, Clearfield county: the highest Januar mean temperature in the past seventeen years, 88°.5, occurred in 1876; th lowest, 16°.1, in 1867.

South Carolina.—Stateburg, Sumter county: the mean temperature of the seven days from January 2d to 8th, inclusive, is 27°.7; the highest temperature during January in the past six years, 78°.0, occurred on the 16th in 1882; the learner as a country of the 18th in 1882; the lowest, 6°.0, on the 12th in 1886.

Texas.—New Ulm, Austin county: during the past fourteen years th highest January mean temperature, 63°.7, occurred in 1880; the lowest mean 43°.2, in 1881; the January extremes for that time are 84°.0, in 1880, an 7°.0, in 1886.

Vermont.—Strafford, Orange county: the highest mean temperature for January during the past twelve years, 24°.7, occurred in 1880; the lowest mean 11°.0, in 1883.

Virginia.—Variety Mills, Nelson county: the highest mean temperature for January during the past ten years, 44°.9, occurred in 1880; the lowest mean 28°.7, in 1886.

Dale Enterprise, Rockingham county: during the past seven years the warmest January occurred in 1880, mean temperature, 84°.7; the coldest in 1881, mean, 20°.7.

In the following table are given the mean temperatures fo the several geographical districts, with the normals and depar ures, as deduced from Signal Service observations:

Average temperatures for January.

Districts.	Average ary, Signs observe	Comparison of Jan., 1887, with	
	For sev- eral years,	For 1887.	the average for several years.
			۰
New England	20.6	28.5	- 1.1
Middle Atlantic States	22.0	33.0	- 0.3
SUULIS ALIANTIC Stafes	1 72 7	43.9	- 3.0
FIULIUM FUDINANIA	ا دماہ	55.6	4.2
Edelori Guil States	1 0	45.5	- 2.3
" Colorii Guii Miriaa	4	46.1	+ 1.ŏ
APIO GIRIIGO VRIIAV		58.6	+ 2.0
		38.8	0.0
		29.4	- 1.8
		22.9	2.3
Upper Lake region	18.0	12.8	5.2
Extreme Northwest	0.4	— 7.7	- 8.1
Upper Mississippi Valley	22.2	17.1	- 5.i
		10.0	- 6.3
Northern slope	13.5	14.9	+ 1.4
Middle slope Southern slope	25.4	30.0	+ 4.6
Southern plateau	39.0	41.8	+ 2.8
Middle plateau	40.4	43.5	+ 3.1
		34.0	1 4.8
		33.9	
Middle Pacific coast region	39.2	42.3	1 + 3.1
South Pacific coast region	45.7	49.7	+ 2.2
	53.5	55.I	+ 1.6

RANGES OF TEMPERATURE.

The monthly, and the greatest and least daily, ranges of temperature, are given in the table of miscellaneous meteorological data.

The following are some of the greatest and least monthly ranges at Signal Service stations:

Greatest.		Least.				
Las Animas, Colorado Dodge City, Kausas Bismarck, Dakota Fort Buford, Dakota Fort Supply, Indian Territory Denver, Colorado Fort Yates, Dakota	93.8 89.9 88.1 87.7 87.3 84.5 81.6	Tatoosh Island, Washington Ter	0 20.1 21:3 22.0 22.7 23.0 28.5 28.6			

Table of comparative maximum and minimum temperatures for January.

For 1887.

'		i						· · · · · ·
و.	State or Territory.	Station.	Max.	Min.	Max.	Yеаг.	Min.	Year.
_ a.							0	
. 1	4.1	Mobile	72.0	15.9	78.0	1882	11.0	1886
st,	Do	Montgomery	74.0	12.9	78.5	1882	5.4	1886
- 1	Arizona	Prescott	62.8	11.2	71.0	1882	-17.0	1880
st	Do	Fort Apache	65.0	10.5	67.0	1881, 1882	- 9.5	1886 1881
0,	Arkansas	Fort Smith	72.7	- 4.0	73.5 78.0	1882 1880	-12.0	1886
١.	Do	Little Rock	72.2	7.0	78.0	1877	4.8 36.0	1876, 1883
in	California	San Francisco	72.9	41.5 38.0	69.0 78.0	1877	32.0	1880
. 1	Do Colorado	San Diego Denver	74.0 60.9	—17.6	67.0	1877 1882	-29.0	7875 1883
in	Colorado	Pike's Pask	19.0	-20.7	30.0	1879	-37.O.	
3 4 .	Connecticut	New Haven	51.1	- 5.4	63.0	1876 1880	-14.0	1873
ry	Do	New London	56.4	- 0.I	65.0	1880	-14.0 -48.2	1873 1886
he l	Dakota	Fort Buford	42.5	-45.2	47.0 67.0	188c	-48.2	1881
	Do	Yankton Washington City	47.4 67.2	-29.1 6.2		1880	-32.0	1881
he	District of Columbia				71.0	1874, 1876	-14.0	1886
	Florida	Jacksonville	76.3	21.9	80.0	1875, 1876,	15.3	10.0
re	_		78.8	50.2	90.0	1877, 1879 1877	40.8	1886
he	Do	Key West	68.8	9.0	73.0	1879, 1882	- 3.4	1886
	Georgia Do	Atlanta	70.7	16.0	73.0	1879	12.0	1886
he	ldaho	Boisé City	55.2	15.7	61.5	1884	- 7.3 -16.0	1885
in,	Illinois	Cairo	55.2	- 1.1	70.0	1876, 1880		1884
	Do	Chicago	52.0	-15.3 -11.8	61.0	1860	-20.0	1875
nd	Indiana	l Indianapolis	64.4	-11.8	69.0	1876 1880	-25.0	1884
	Indian Territory	Fort Sill	75.9	0.2	75.0	1884	- 9.0 -26.2	1879 1883
ın-	Iowa	Dubuque		-31.5	62.0	1874 1880	-30.4	1884
ın,	Do		72.9	-24·5 -17.0	63.0	1876	—20.0	788*
,	Do	Leavenworth	60.2	-15.5	65.0	1876	-29.0	1873
for	Kentucky		67.2	- 4.7	71.0	1876	10.5	1884 1886
	Louisiana	New Orleans	67.2 78.0	21.4	78.0	1879	15.3	
ın,	Do	Shreveport	76.1	12.0	78.0	1879 1876, 1880	1.3	1886
	Maine	Eastport	50.3	-13.4	51.0	1874	20.0	1874 1886
he	Do	Portland	47.2 65.3	-14.7	58.0	1876 1876	12.4 6.0	1881
in	Maryland	Baltimore	05.3	7.3	71.0 69.5	1876	-13.0	1882
	Massachusetts		55.9	- 5.0 -20.6	56.0	1880	-26.0	188 -
	Michigan Do	Grand Haven	37.2 48.1	- 2.1	57.0	1880	-12.0	1873 1885
or	Minnerote	. Naint Vincent	22.8	-42.2	39.0	1885	-46.0	. 1885
rt-	Do	Saint Paul	31.5	—35.7	49.0	1879	-35.6	1885 1886
	Mississinni	. Vicksburg	70.2	9.6	80.0	1879	3.1	1886
,	Missouri	Saint Louis		9.6	72.0	1885, 1886	-21.5	1884 1886
	Montana	Fort Assumboome		-35.0	46.1 57.0	1885	-49·3 -34·0	1883
	Do Nebraska		47.9 56.0	-25.3 -21.4	70.0	1880	-27.0	1881
	Do		51.1	-21.9	62.0	1879, 1880 1878, 1886	-32.0	1884
ю	Nevada	Winnernucca	57.2	7.5	57.0	1878, 1886	-14.0	1879 1885
	New Hampshire	Mount Washington	36.8	-35.4	42.0	1874 1880	50.0	1885
th	New Jersey	Atlantic City	49.4	7.0	64.0			1875 1883
ge	New Mexico	Santa F6	55.5 56.0	0.0	76.0	1879	-13.0	1883 1884
al.	New York	Buffalo New York City	50.0	- 1.7	65.5	1874	-13.5 - 6.0	1904
	North Carolina		68.9	6.0 8.2	70.0	1879, 1880	0.6	1875 1886
	Do		73.0	14.6	77.0	1879	9.0	1884
	Ohio	Cincinnati	65.5	-5.2	69.0	1876	-12.4	1886
٥	Do	. Bandusky	62.4	- 5.2 - 8.0	64.0	1880	-16.5	1879
1.1	Oregon	Portisud	58.1	29.3	60,0	1886	3.0	1875 1883
0.3	Do	. Roseburg		23.2	66.0	1885	12.0	1883
3.0	Pennsylvania	Pittsburg	67.8	8.1	75.0	1874 1876 1885	13.0	1875
4.2	Do	Philadelphia Block Island	65.6	1.8	67.0 58.8	1070	- 5.0 - 4.0	1875 1882
2.3 1.0	Rhode Island South Carolina			16.7	80.0	1879	10.5	1886
2.0	Tennessee,			5.4	74.0	1876		1884
0.0	Do	Memphis		4.3	73.0	1876, 1880	⊢8. 0	1886
1.8	Texas	. Brownsville	87.6	4.3 27.8	73.0 82.0	1880	18.0	1881
2.3	Do	Fort Elliott	73.4	- 4.4	81.0	1880		. 1883
5.2 8.1	Iltah	. Salt Lake City	51.5	0.11	54.2	1879	-20.0	1883
8.1	Virginia	Lynchourg	65.4	6.1	72.0	1876, 1879	- 4.0 8.0	1877
5.1 6.3	Do	. Norioik	69.0	12.6	80,0			1879 1885
0.3	Washington Ter		51.2	26.0	50.9		9.0	1883
1.4	Wisconsin		54.5	-28.9		1874	-43.0	1873
4.6 2.8	Do		42.3	-15.9	50.0	1871. 1874	-25.0	1875
3.1	Wyoming			-3.9		1871, 1874	-25.0 -38.0	1875
4.8		1,		1				

FROSTS.

Frosts occurred in the various districts on the following dates: New England.—1st to 31st.

Middle Atlantic states.—1st to 31st.

South Atlantic states.—1st to 13th, 15th to 20th, 22d, 25th to 28th, 31st.

Florida Peninsula.—2d, 3d, 4th, 11th, 12th, 14th to 18th, 20th, 21st, 25th.

East Gulf states.—1st to 4th, 6th, 10th, 11th, 12th, 16th, 18th, 19th, 24th, 25th, 27th.

West Gulf states.—1st to 12th, 14th, 15th, 18th, 19th, 24th, 26th, 27th, 29th.

Rio Grande Valley .- Rio Grande City, Texas, 2d, 3d, 5th,

10th; Brownsville, 10th.

Tennessee.—1st to 12th, 14th, 15th, 17th, 18th, 19th, 23d, 24th, 26th, 27th, 29th, 30th, 31st.

Ohio Valley.—1st to 21st, 24th to 31st.

Lower lake region.—1st to 22d, 24th to 31st.

Upper lake region.—1st to 31st. Extreme northwest.—1st to 31st.

Upper Mississippi valley.—1st to 31st.

Missouri Valley.—1st to 31st.

Northern slope.—1st to 31st. Middle slope.—1st to 31st.

Southern slope.—1st to 12th, 15th to 29th.

Southern plateau.—1st to 31st. Middle plateau.—1st to 31st.

Northern plateau.—1st to 31st.

North Pacific coast region.—1st to 11th, 15th, 16th, 17th, 19th, 20th, 23d to 28th, 30th, 31st.

Middle Pacific coast region.—1st, 3d, 4th, 5th, 7th to 11th, 16th, 17th, 22d to 31st.

South Pacific coast region.—7th, 9th to 12th, 15th, 21st, 23d to 30th.

Ice formed on calm water in the southern districts of the country on the following dates:

Alabama.—Livingston, 3d.

Arizona.—Yuma, 10th, 11th, 12th; Maricopa, 12th.

California.—Sacramento, 9th, 10th, 11th, 17th, 26th, 28th, 29th; San Diego, 11th.

Florida.—Jacksonville, 2d, 3d, 4th, 19th; Sanford, 2d, 3d, 19th; Pensacola, 2d, 18th; Archer, 2d, 3d, 4th, 11th; Duke, 3d. Georgia.—Quitman, 2d, 3d, 4th; Savannah, 11th, 19th. Louisiana.—Shreveport, 1st, 2d, 5th, 9th, 10th, 12th.

North Carolina.—Smithville, 3d, 4th, 5th, 11th, 18th, 19th. South Carolina.—Spartanburg, 1st to 4th, 10th, 18th; State-

burg, 2d to 12th, 18th, 19th, 20th, 27th; Charleston, 3d, 18th, 19th. Texas.—San Antonio, 1st, 2d, 3d; Corsicana, 1st to 8th, 10th, 11th, 12th, 17th, 18th, 19th, 23d, 24th, 26th, 30th; Palestine, 5th; Rio Grande City, 10th.

PRECIPITATION.

[Expressed in inches and hundredths.]

The distribution of rainfall over the United States and Canada for January, 1887, as determined from the reports of about six hundred stations, is exhibited on chart iii, and in the table of miscellaneous data are given, for Signal Service stations, the total precipitation, with the departures from the normal. With the exception of the eastern half of Georgia and the southern half of South Carolina, the precipitation of the month is below the normal in all parts of the country lying south of the fortieth parallel; it is also deficient in northern Idaho, northern Montana, Nebraska, Iowa, and northern Michigan. The departures are quite large in the south Atlantic and Gulf states; in the latter district the deficiency averages over two inches; the deficiency is also large in the Ohio Valley and Tennessee, the departures averaging over one inch below the normal. The rainfall of the month in California is very small for the season; in the northern and central parts of the state it is only about one-fourth and in the southern part only one twenty-second of the normal; reports from various parts of the state indicate that the lack of rain is already beginning to the Lake region, Minnesota, Dakota, and in the northern the lowest, 0.18, in 1881.

Pacific coast region the precipitation of the month is in excess of the normal; the departures are especially large along the coast of Washington Territory and Oregon, also in eastern Maine and the Canadian Maritime Provinces.

DEVIATIONS FROM AVERAGE PRECIPITATION.

The following table shows, for certain stations, as reported by voluntary observers, the average precipitation for the month of January for a series of years, the precipitation for January 1887, and the departures from the average:

1887, and the depart	tures from the av	1887, and the departures from the average:									
Station,	County.	Average pre- cipitation for Jan.	Number of years.	Precipitation for Jan., 1887.	Departure.						
Arkaneae.	·	Inches.		Inches.	Inches.						
Load Hill	Вооле	2,60	5	1.33	- 1,27						
California. Bacramento	Sacramento	4.18	21	1.07	- 3.21						
Canton *	Hartford	3.60	25	5.87							
Hartford*	Hartford	3.96	15	5.92	+ 2.27						
Middletown New Haven #	Middlesex New Haven	4.16 4.18	23	7.07	+ 2.91 + 0.06						
Wallingford *	New Haven	4.38	15 29	4.24 5.71	T 1.33						
Dakota. Webster	Day	ì.58	4		+ 2.97						
Illinois.	-			4.55							
Collinsville	Madison	1.79 2.66	5 7	0.60	- 1.19 - 1.36						
Pantla	Peoría	1.62	31	1.30	- 0.52						
Riley	McHenry	1.82	25	3.59	‡ 1.77 ‡ 1.45						
Bycamore	De Kalb	2.48	. 6	3.93	+ 1.45						
Tefevotte	Tippecanoe	2.91	8	1.18	- 1.73						
Logananort	Cass	1.71	33	2.85 4.18	+ 1.14						
Vevay	Switzerland	4.11	21	4.18	+ 0.07						
Cresco	Howard	1.30	15	0.73	- 0.57						
Monticello	Jones	1.65	34	2.39	+ 0.74						
Independence	Montgomery	1.40	15	0.79	- o.61						
Wellington	Sumner	0.71	9	0.48	- 0.23						
Grand Coteau	Saint Landry	9.42	4	2.57	- 6.85						
Gardiner *	Kennebec	3.47	49	7.32	+ 3.85						
Огово *	Penobscot	3.90	19	7.56	‡ 3.85 ‡ 3.66						
Maryland. Cumberland	Alleghany	2.09	15 16	0.30	- 1.79						
Fallston	Harford	3.83	16	2.72	- 1.11						
Massachusetts.	Hampshire	3.31	52	4.83	+ 1.52						
Cambridge #	Middlesex	4.13	46	7.04	T 2.91						
Chestnut Hill #	Middlesex	4.35	12	5.57	+ 1.22						
FraminghamLake Cochituate #	Middlesex	4,16 3,80	13 36	5.20	+ 1.04						
Lynn *	Essex	3.98	13	5.39 6.20	+ 2.22						
Mystic Lake *	Middlesex	4.14 3.88	12	5.22 6.02	# 1.08						
New Bedford #	Bristol	3.88 4.20	74	6.02 6.08	十 2.14						
Somerset	Bristol	3.42	17 40	4.85	+ 1.69 + 1.43						
Waltham *	Middlesex	3.05	62	5.99	-+- 2.04						
Williamstown * Nevada,	Berkehire	2,66	22	5.29	+ 2.63						
Carson City	Ormsby	2.01	8	1.01	- r. oo						
New Brunswick.	Saint John	4.87	27	10.00	+ 6.08						
Saint John *			27	10.95	1						
Concord *	Merrimac	3.08	31	3,35 4,82	+ 0.27						
Hanover #	Grafton	2.63	21	4.82	+ 2.19						
South Orange	Essex	3.96	17	3.50	- 0.46						
New York. Palermo	Oawego	3.31	34	5.39	+ 2.08						
Ohio. Wauseon	Fulton	2,20	13	2,36	+ 0.16						
Pennsylvania.					1						
Dyberry	Wayne	2.99	18	4.00	+ 1.01						
Grampian Hills	Ciearneld	3.00	17	2.57	1.09						
Kirkwood	Kershaw	3.32	20	3.13	- 0.19 - 0.48						
Stateburg	Sumter	3.98	6	3.50	- 0.48						
New Ulm	Austin	4.13	14	1,09	- 3.04						
Vermont, Lunenburg	Essex	3.01	20	3.00	- o.oz						
Newport *	Orleans	3.34	39 12	5.88	+ 2.54						
Strafford	Orange	3.20	12	5.50	‡ 2.54 ‡ 2.30						
Virginia. Dale Enterprise	Rockingham	3.01	-	2,42	1						
Variety Mills	Nelson	4.14	. 8	2,42	- 0.59 - 1.98						
West Virginia. Helvetia	Randolph		11		- 1.72						
Treat arise """"""""""""""""""""""""""""""""""""	wengothi	5.47		3.75	/2						
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^{*} From the "Bulletin of the New England Meteorological Society."

The following notes, in connection with this subject, are furnished by voluntary observers:

Kansas.-Wellington, Sumner county: the precipitation of the month was injure the grain and other crops. In New England, Canada, the Take region Mineson Diving the past the Lake region Mineson Diving the past the Lake region Mineson Diving the past the Lake region Mineson Diving the past the largest monthly rainfall for January, 1.54, occurred in 1886;